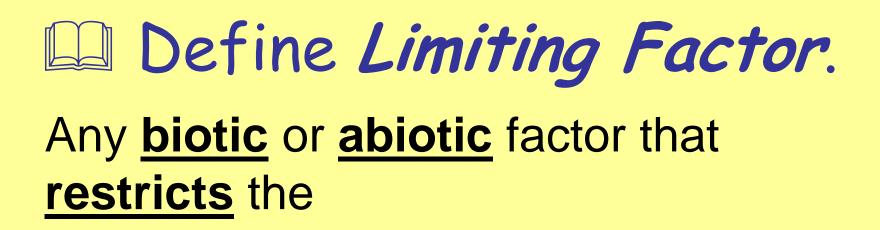
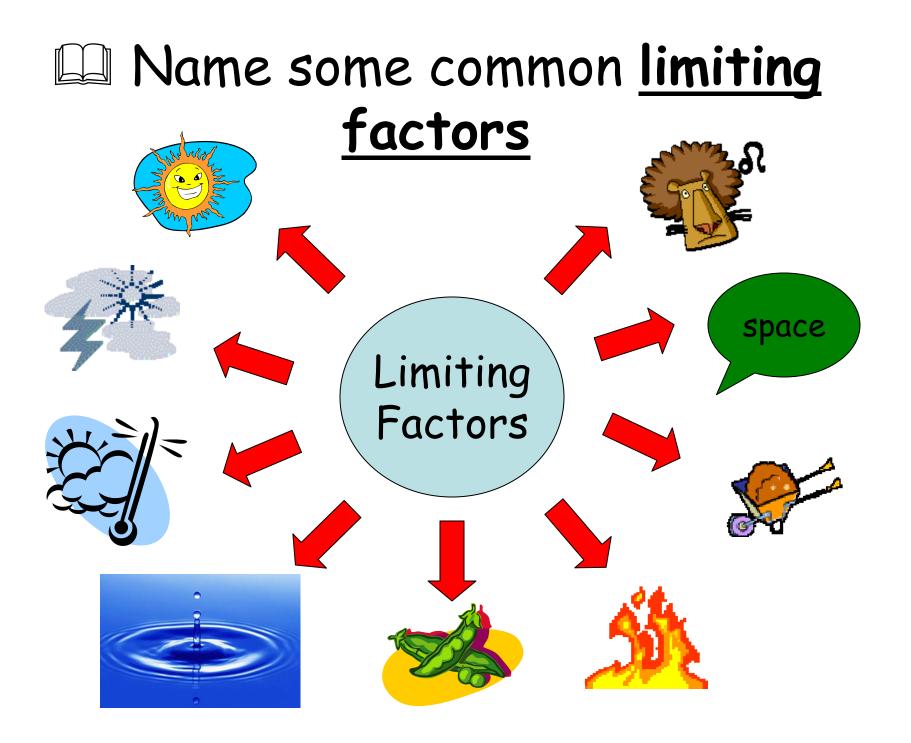
# Life in a Community



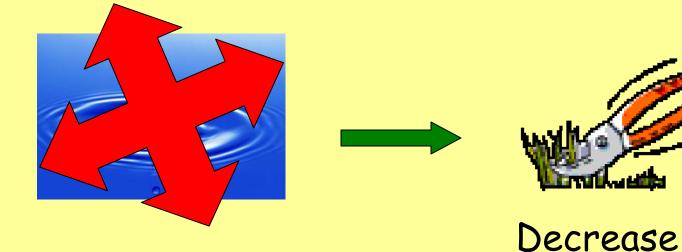


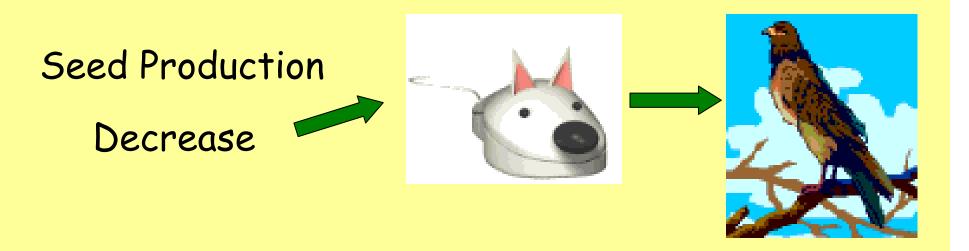
- Existence
- Numbers
- Reproduction
- Distribution

of organisms.



# What would happen if...

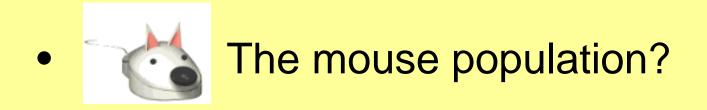




## What would happen if...



Grass had a lack of water?





The hawk population?

### Therefore...

 Factors that limit one population in a community may have an indirect effect on another population.

# Define *tolerance*.

 Tolerance is the ability of an organism to <u>withstand fluctuations</u> in biotic and abiotic environmental factors.

 In other words, it is a <u>range</u> of tolerance that a particular population can <u>remain</u> at <u>optimum</u> numbers.

# Define succession

 Succession is the natural changes and species replacement that take place in a community.

#### Characteristics of Succession

Succession occurs in <u>stages</u>.

• At each stage, <u>different</u> species of plants and animals may be present.

 The conditions at each stage are suitable for some organisms but not for others.

#### Characteristics of Succession

 As succession progresses, <u>new</u> organisms move in.

 Other organisms may <u>die</u> or <u>move out</u>. How many types of succession?

### Succession?

Name the types of succession.

Primary Succession
Secondary Succession

#### Define Primary Succession.

Primary succession is the colonization of <u>barren</u> land by communities of organisms.

 Primary succession takes place on land where there are <u>no</u> living organisms.

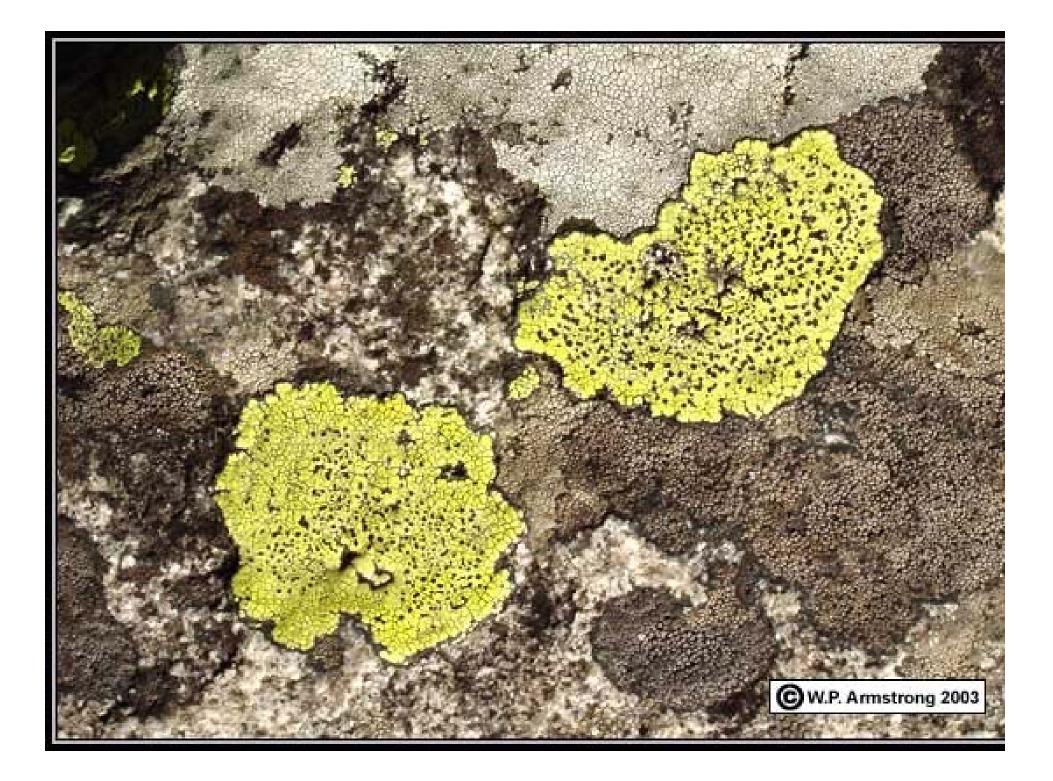
### Define Pioneer Species.

Pioneer species are the <u>first</u>
<u>species</u> to take hold in an area.

 An example of pioneer species is the <u>lichens</u>.

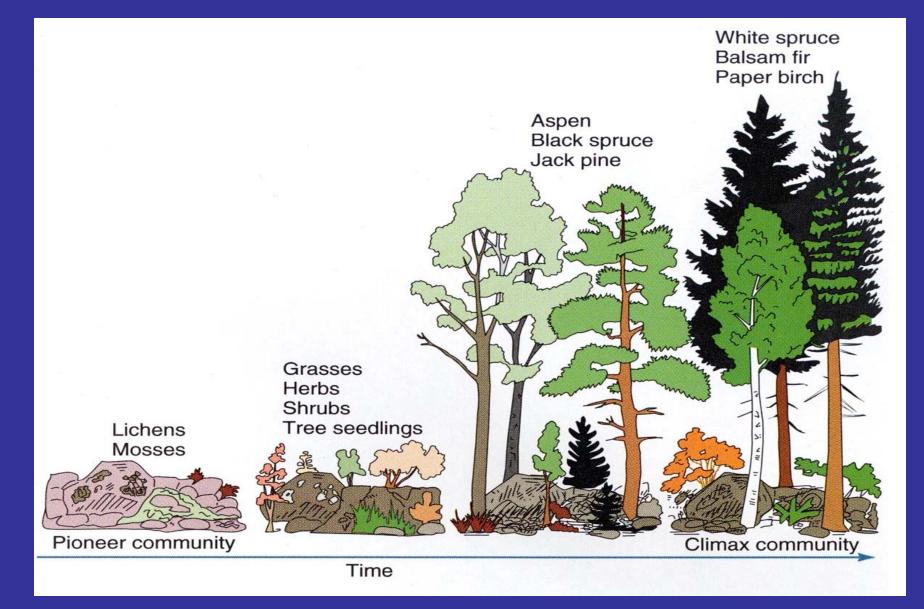






·Pioneer species are <u>only</u> found in primary succession.

# How succession works?



#### Define Climax Community.

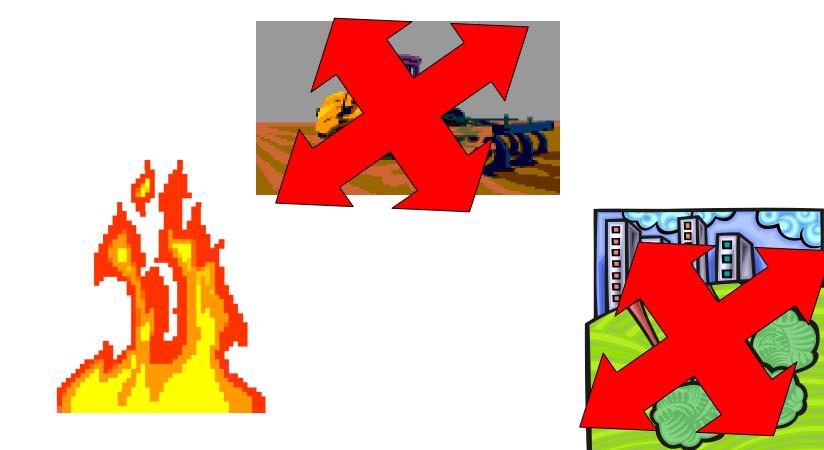
 A climax community is a <u>stable</u> and <u>mature</u> community that undergoes <u>little</u> or <u>no changes</u> in species.

 A climax community may last for <u>hundreds</u> of years.

#### Define Secondary Succession

 Secondary succession is the sequence of changes that takes place after an existing community is severely disrupted in some ways.

#### Name some ways communities are disrupted.



#### Characteristics of Secondary Succession

 Secondary succession occurs in areas that <u>previously</u> contained life.

• In other words, the **soil** already **exist**.

Secondary succession takes <u>less</u>
<u>time</u> that primary succession to reach
<u>climax</u> community.